First Grade New Math Core Compared to the Old Math Core DRAFT 9.10.07

Common to Both	New Core Only	Old Core Only
(Based on New Language)		
 Standard I: Students will acquire number sense and perform simple operations with whole numbers. Objective 1: Represent and use whole numbers up to 100. Count, read, and write whole numbers. Represent whole numbers using the number line, models, and number sentences. Represent whole numbers greater than 10 in groups of tens and ones using objects, pictures, and expanded notation. 		Use zero to represent the number of elements in the empty set or as a placeholder in a two-digit numeral.
Objective 2: Identify simple relationships among whole numbers up to 100. Compare and order sets of objects and numbers using the terms greater than, less than, and equal to when describing the comparisons. Identify one more, one less, 10 more, and 10 less than a given number.	 Make reasonable estimates of the quantitative between two sets of objects. Identify numbers missing from a counting sequence. Represent part-whole relationships using the number line. Extension: Identify 10 more, and 10 less than a given number. 	Use ordinal numbers 1 st through 5 th .
 Objective 3: Model, describe, and illustrate the meanings of addition and subtraction and use these operations to solve problems. Use a variety of models, including objects, length-based models, the number line and the ten frame to describe problem types (i.e., partwhole, combine, separate, compare). Use the properties of addition (i.e., commutativity, associativity, identity element) and the mathematical relationship between addition and subtraction to solve problems. Compute basic addition facts (up to 10 + 10) and the related subtraction facts using strategies (e.g., 6 + 7 = (6 + 4) + 3 = 10 + 3 = 13). Find the sum of three one-digit numbers. 	 Extensions: Basic addition facts up to 10 + 10 (used to be facts to 12). Sum of three one-digit numbers (used to limit the sum to 18). 	 Use fractions to identify parts of the whole. Separate geometric shapes and sets of objects into halves, thirds, and fourths using a variety of models and illustrations. Specify a region of a geometric shape when given four or fewer equal parts. Represent the unit fractions 1/2, 1/3, and 1/4 with objects, pictures, and symbols.

Standard II: Students will identify and use	Identify, create, and label growing patterns	Identify patterns in the environment.
number patterns and properties to describe and represent mathematical relationships.	using objects, pictures, and symbolic notation.	Count backward from 10 to 0 and identify the pattern.
Objective 1: Recognize, describe, and represent		
patterns with more than one attribute.		
Sort and classify objects using more than one		
attribute.Identify, create, and label repeating patterns		
using objects, pictures, and symbolic notation.		
 Use patterns to establish skip counting by twos, 		
fives, and tens.		
Objective 2: Recognize and represent	Create problem situations from given number	
mathematical relationships using symbols and use	sentences involving addition and subtraction.	
number sentences with operational symbols to		
solve problems.Recognize that "=" indicates that the two sides		
of an equation are expressions of the same		
number.		
• Recognize that "+" indicates the joining of sets		
and that "-" indicates the separation of sets.		
Write and solve number sentences from		
problem situations involving addition and subtraction, using symbolic notation for the		
missing value (e.g., $\Delta + 4 = 7$).		
Standard III: Students will understand simple	Decompose plane and solid figures and describe	Use and demonstrate words to describe position
geometry and measurement concepts as well as	the part-whole relationships, the attributes of the	and distance.
collect, represent, and draw conclusions from	figures, and how they are different and similar.	
data.		
	Extension:	
Objective 1: Identify, describe, and create simple geometric figures.	 Name, create, and sort geometric plane figures now includes: trapezoid, rhombus, 	
Name, create, and sort geometric plane figures	parallelogram, and hexagon.	
(i.e., circle, triangle, rectangle, square,	paranelogiam, and noxagon.	
trapezoid, rhombus, parallelogram, hexagon).		
• Identify geometric plane and solid figures (i.e.,		
circle, triangle, rectangle, square, trapezoid,		
hexagon, rhombus, parallelogram, cube, sphere, cone) in the students' environment.		
Compose plane and solid figures (e.g., make)		
two triangles from a square) and describe the		
part-whole relationships, the attributes of the		
figures, and how they are different and similar.		

 Objective 2: Identify measurable attributes of objects and units of measurement, and use appropriate techniques and tools to determine measurements. Identify the appropriate tools for measuring length, weight, capacity, temperature, and time. Identify the value of a penny, nickel, dime, quarter, and dollar, and determine the value of a set of the same coins that total 25¢ or less (e.g., a set of 5 nickels equals 25¢). Tell time to the hour and half-hour. Name the months of the year and seasons in order. 	 Measure the length of an object using nonstandard units and count the units using groups of tens and ones. Use a calendar to determine the day of the week and date. Extensions: Value of a dollar. Tell time to the ½ hour. 	 Estimate the length of an object by comparing to a nonstandard unit. Compare objects, using nonstandard units, according to their length, weight, or volume.
 Objective 3: Collect, organize, and represent simple data. Collect and represent data using tables, tally marks, pictographs, and bar graphs. Describe and interpret data. 		 Determine the likelihood of an event. Compare events to decide which are more likely, less likely, and equally likely. Relate past events to future events.